

ABSTRACT OF THE DISCLOSURE

An energy trap type piezoelectric resonator component includes a piezoelectric resonator using a third overtone of a thickness longitudinal vibration. The piezoelectric resonator includes a piezoelectric substrate, and first and second vibrating electrodes, having an elliptical shape, and respectively arranged on portions of first and second major surfaces of the piezoelectric substrate such that the first and second vibrating electrodes face each other with the piezoelectric substrate interposed therebetween. A flattening ratio " a/b " of a minor axis diameter " b " to a major axis diameter " a " of the elliptical shape is within a range of from about 1.2 to about 1.45. The resonator is thus compact, effectively controls the fundamental wave of the thickness longitudinal vibration as a spurious wave, is relatively free from area restraints of the electrode and dimensional constraints, and meets a variety of frequency requirements in a wide range.